

Design Built

Portland Cement Concrete and Hot Mix Asphalt Mix Designs

Policy

The Design Builder, or their designee, shall develop the concrete mix design per the standard specifications. The Design Builder's QA will certify that the concrete mix design conforms to the contract provisions and the Standard Specifications.

The concrete batch plant that the Design Builder uses for the production of Portland cement concrete shall be a National Ready Mix Concrete Association (NRMCA) approved plant.

The Design Builder, or their designee, shall develop the HMA mix design. They will determine the gradation, asphalt content, and anti-strip requirement according to the Standard Operating Procedure 732 in the Materials Manual. The Design Builder's Quality Assurance Engineer shall certify that the HMA mix design meets all of the requirements of the contract provisions and the Standard Specifications.

The asphalt concrete plant(s) that the Design-Builder uses for the production of asphalt concrete shall meet all of the requirements as specified in the Standard Specifications. The Design-Builder's QA shall inspect the asphalt concrete plant(s) and document that it meets all requirements.

The Design Builder shall send a copy of the completed HMA mix design showing all trial blends and calculations, along with a sufficient amount of prepared aggregate for the Department to verify the adequacy of the proposed design. The verification effort by the Department will consist of mixing, at the determined asphalt content, eight (8) samples for checking the Air Voids and Stability, the Stripping requirements, and the Compactive effort.

Discussion

These are the same requirements that the department requires WSDOT conventional projects.